
मुगदर — विशिष्टि

(पहला पुनरीक्षण)

Indian Club — Specification

(*First Revision*)

ICS 97.220.30

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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Sports Goods Sectional Committee had been approved by the Production and General Engineering Division Council.

Clubs are used by athletes and gymnasts for physical training. These are also employed for regular body-building by other cross-sections of society. The results being dependent to a large extent on the equipment available, formulation of a standard was considered very essential.

This standard was first published in 1968. While preparing this standard, considerable assistance had been derived from the following:

- a) DIN 7912: 1960 Indian clubs. Deutscher Normenausschuss.
- b) Drg No. IND/GS/MED/393(a) Clubs, Indian. GIGS, Ministry of Defence, Government of India.

In this revision, a test method for moisture content has been added.

The composition of the Committee, responsible for the formulation of this standard is given at Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

INDIAN CLUB — SPECIFICATION

(*First Revision*)

1 SCOPE

This standard covers the requirements for Indian clubs used for physical training.

2 REFERENCE

The standards listed below contain provisions, which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below.

<i>IS No.</i>	<i>Title</i>
374 : 1975	Specification for varnish, shellac, for general purposes (<i>first revision</i>)
1078 : 1997	Specification for copper naphthenate (<i>second revision</i>)
1708 : (Part 1) : 1986	Methods of testing of small clear specimens of timber part 1 determination of moisture content (<i>second revision</i>)

3 MATERIAL

Indian clubs shall be manufactured from reasonably straight-grained and well-seasoned wood. Moisture content shall not exceed 12 percent (*see* IS 1708 (Part 1)). The wood shall be free from any kind of decay, insect attack, sapwood, centre heart (pith) knots, splits, warping, or any other defect which is likely to impair its durability. The recommended species of timber are:

<i>Trade Name</i>	<i>Botanical Name</i>
Axlewood	<i>Anogeissus latifolia</i>
Babul	<i>Acacia nilotica</i>
Benteak	<i>Lagerstroemia lanceolata</i>
Bijasal	<i>Pterocarpus marsupium</i>
Dhaman	<i>Grewia tilijolia</i>
Kindal	<i>Terminalia panicdata</i>
Laurel	<i>Terminalia alata</i>
rosewood (blackwood)	<i>Dalbergia latifolia</i>
Sissoo	<i>Dalbergia sissoo</i>

4 SHAPE AND DIMENSIONS

The typical shape of the club Indian is given in Fig. 1. The nominal principal dimensions are given thereon.

5 WORKMANSHIP AND FINISH

5.1 The clubs shall be turned from wood in such a way that the centre of gravity of the club lies in the lower portion.

5.2 The surface obtained shall be smooth and free from pits and other imperfections. The edges shall be rounded.

5.3 Before the clubs are varnished, these shall be treated by dipping either in a 10 percent (by weight) solution of copper naphthenate (*see* IS : 1078) in white spirit for 10 seconds or in copper naphthenate dispersed in aqueous ammonia for 1 minute and allowed to dry thoroughly. Thereafter, the clubs shall be given two coats of varnish, shellac (*see* IS : 347). The second coat shall be applied after the first has dried thoroughly.

6 PACKING AND MARKING

6.1 Packing

Clubs shall be packed as agreed to between the purchaser and the supplier.

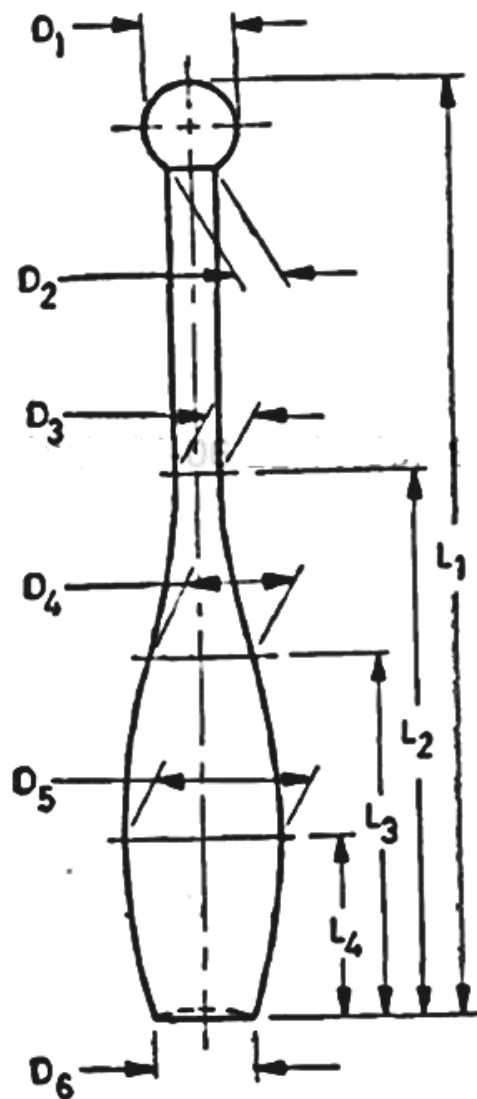
6.2 Marking

6.2.1 Each club shall be marked with the following information:

- a) carry the manufacturer's name or identification mark, and
- b) Month and year of manufacturing.

6.2.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the standard mark.



L_1	L_2	L_3	L_4	D_1	D_2	D_3	D_4	D_5	D_6
360	210	140	70	35	18	18	41	63	40
450	250	170	85	37	24	24	52	80	51
585	340	220	110	40	32	32	65	102	63

(All dimensions in millimetres)

FIG.1 INDIAN CLUB, TYPICAL

ANNEX A
(Foreword)

COMMITTEE COMPOSITION

Sports Goods Sectional Committee, PGD 41

<i>Organization</i>	<i>Representative(s)</i>
Sports Goods Export Promotion Council	SHRI TARUN DEWAN (Chairman)
All India Lawn Tennis Association, New Delhi	SHRI NAR SINGH
Anand and Anand	SHRI ASHISH ANAND
Athletic Federation of India	SHRI SANDEEP MEHTA SHRI GOPALA KRISHNAN (<i>Alternate</i>)
Central Institute of Plastics Engineering & Technology (CIPET), Murthal	DR S N YADAV
COSCO India Pvt Ltd, Gurgaon	SHRI PANKAJ JAIN SHRI NARINDER JAIN (<i>Alternate</i>)
Director Equipment, Sports Authority of India, New Delhi	SHRI ROQUE DIAS
Freewill Sports Pvt Ltd., Jalandhar	SHRI RAJESH KHARBANDA
Government e Market Place, New Delhi	SHRI N K MALHOTRA
Gymnastic Federation of India, Mumbai	SHRI RIAZ BHATI
Hockey India	COMMANDER R K SRIVASTAVA
Micro, Small and Medium Enterprises, Technology Development Centre, New Delhi	SHRI V K SINGH
NELCO (India) Pvt Ltd, Meerut	SHRI AMBER ANAND
Office of Development Commissioner (MSME), Delhi	SHRI SUNIL GUPTA
Premier Enterprises, Meerut	SHRI SUMESH AGARWAL SHRI KSHITIJ AGARWAL (<i>Alternate</i>)
Process cum Product Development Centre, Meerut	SHRI SUNIL GUPTA
Ranson Sports Industry, Jalandhar	SHRI ARVIND SINGH RANA
Sanspareils Greenlands Pvt Ltd.	SHRI PUNEET ANAND SHRI ALOK MISHRA (<i>Alternate</i>)
Shriram Institute For Industrial Research, Delhi	DR VINAY TYAGI
Soccer International Pvt Ltd. Jalandhar	MS SHAALINI GUPTA
Softball Association of India	MS SHIBANI TAGORE

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<i>Organization</i>	<i>Representative(s)</i>
Sports Goods Manufacturers and Exporters Association (SGMEA), Jalandhar	Ms HARSHITA
Sports Line, New Delhi	SHRI OJASVI NAGPAL
Stag International Sports, Meerut	SHRI RAKESH KOHLI SHRI VIVEK KOHLI (<i>Alternate</i>)
Universal Sports, Jalandhar	SHRI MAHESH CHADHA
Vats Sports, Meerut	SHRI LOKESH VATS
Voluntary Organisation in Interest of Consumer Education (VOICE), New Delhi	SHRI M A U KHAN
Director General, BIS	SHRI R R SINGH, SCIENTIST 'E', DIRECTOR AND HEAD (PGD) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary
SHRI AJAY KUMAR
ASSISTANT DIRECTOR AND SCIENTIST 'B' (PGD), BIS

Bureau of Indian Standards

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Review of Indian Standards

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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